WY 2002/2003 EWA Accounting Summary Based upon July Operations Study - 50% Exceedance Hydrology Assumptions: SWP Allocation - 90%; NOD Purchases - 69.9 TAF; SOD Purchases - 145 TAF EWA NOD and SOD Storage Acquisitions (+) and Releases (-) C/O Oct Ind Sep Oct Nov Dec Jan Feb Mar Total NOD (Oroville) 20 -20 -10 ⁵ 10 ¹⁵ -15 5 -19 ¹⁵ -31 ⁶ NOD (non-Oroville) 7 3 66 ⁶ -14 ⁶ -4.6 ³ -1.6 ³ -0.7 -2 SOD (KCWA) 37 -12 -15 -9 12 4 SOD (MWD) 15 ⁴ -30 4 2 EWA Asset Acquisition in SWP San Luis C/O Oct Nov Dec Jun Sep Oct Nov Dec Total Mar E/I Relaxation 31 ¹ 75 35 8 EWA share of SWP gain Project Pumping to reduce EWA debt JPOD using excess flows JPOD using NOD storage Xfer NOD - Sacramento River 2 21 ⁶ 25 ^{6 17} Xfer NOD - San Joaquin River 2 SOD SWP Surface/GW Purchases 30 ⁴ 36 ⁷ 36 ⁷ 36 ⁷ 17 ⁷ 162 Exchange of EWA assets Groundwater pumping SOD exchange from CVP to SWP in SL Total Monthly EWA Assets 67 45 311 62 30 50 O **EWA Asset Acquisition in CVP San Luis** C/O Oct Nov Dec Jun Jul Sep Oct Feb Mar Apr Aug Nov Total E/I Relaxation Project Pumping to reduce EWA debt JPOD using excess flows JPOD using NOD storage 6 Xfer NOD - Sacramento River 2 0.5^{3} Xfer NOD - San Joaquin River 2 SOD CVP Surface/GW purchases 20 Exchange of EWA assets Groundwater pumping Exchange from SWP to CVP in SL Total Monthly EWA Assets 0 0 EWA Expenditures at the Export Pumps C/O Oct Nov Dec May Jun Feb Mar Jul Sep Oct Nov Jan Apr Aug Total SWP export cuts -322 -32 -19 -182 -89 CVP export cuts -26 Total Expenditures 0 0 0 -32 -89 0 0 -19 -208 0 0 0 0 O 0 n -348 **EWA End-of-Month Incremental Storage Change** C/O Oct Nov Dec Jan Feb Mar Apr May Sep Oct Nov Dec Total SWP in SL (without Source Shift) 11 0 -89 62 -19 67 45 50 0 0 0 -32 58 0 CVP in SL -6 0 0 0 0 0 6 0 -26 0 0 0 26 0 0 0 NOD Storage (SOD equivalent) 12 21 -1 -1 0 Ω 0 0 Ω 36 -8 -7 -19 -23 Ω 0 Ω SOD Storage (non-S.L.) 37 0 0 0 0 0 0 -30 0 0 0 0 0 0 Total Incremental Storage Changes 63 0 -1 -31 -89 0 60 -19 -171 59 38 38 53 0 0 EWA End-of-Month Storage Balance at Various Sites C/O Oct Oct Nov Feb Mar Mav Jul Dec Jan Apr Aua Nov SWP in SL (without Source Shift) 11 11 11 -21 -111 -111 -49 -68 -220 -108 -51 0 CVP SL 0 -6 0 -6 -6 -6 -6 -6 0 0 -26 -26 -26 -26 0 NOD Storage (SOD equivalent) 12 21 20 20 20 20 20 20 20 56 49 42 23 0 0 0 0 37 SOD Storage (non-S.L.) 0 0 0 EWA Asset Balance 63 -92 61 30 -189 San Luis Reservoir Storage Conditions C/O Oct Nov Jan Feb Mar Apr Sep Oct Nov Dec Aug 1037 1554 1406 1052 Total Storage (base case) 645 783 1856 2007 1897 1686 861 957 1087 871 1367

1438

1740

1740

1958

1958

1829

1829

1440

1440

* The SWP was able to back 20 taf of water for the EWA into Lake Oroville between September 14 and October 6, 2002

650

650

(which includes a 20% carriage water loss). SOD equivalent = 16 taf (not a 1:1 Exchange). 1 Aqueduct conveyance and evaporation losses are not included.

788 | 1010 | 1438

788 0 1010

A carriage water loss of 20% was applied to the 2002 water transfers.

3 2002 SGA Transfer (CVP place of use). The majority of this asset was used for instream flow benefits.

⁴ 2002 KCWA Transfer (SWP place of use)

1227

1227

918

918

784

784

956

956

870

870

1086

1086

⁸ About 32 taf was expended for the December portion of the 12/27/02 - 1/2/03 curtailment.

 $^{\rm 11}$ The cost for VAMP shoulders is about 169 taf for the SWP; and 26 taf for CVP.

 $^{\rm 13}$ The SWP spilled ~ 20 taf of EWA water stored in Oroville during flood control operations.

Encroachment Total Storage (EWA case)

MWD Source Shifting

Storage (with MWD source shifting)

1366

1366

⁰ 2002 NOD Purchases = 135(YCWA) + 10(SGA). 2003 NOD Purchases = 185(YCWA) + 10(OWID). YCWA has firm 55 taf; exercised option for an additional amount - 10 taf.

² Carriage water loss applies to water transfers from the Sacramento River; a 10% conveyance loss applies to water transfers from the San Joaquin River.

⁹ Of this amount, approximately 9.5 taf was expended for the 1/1-1/2/03 portion of the 12/31/02-1/2/03 curtailment; about 60 taf was expended for the 1/15-1/20/03 curtailment; about 20 taf was expended for the 1/25-1/28/03 curtailment..

¹⁰ The VAMP cost is estimated to be about 32 taf for the SWP and is based upon the 4/30 estimate of base flows.

¹² Default assumption for C/W is 20%. When NOD storage is released and pumped a post analysis will be performed to calculate actual C/W costs.

¹⁴ E/I relaxation: ~22 taf of surplus Delta flow pumped June 16-23. ~9taf OWID and SWP water pumped from OrovilleJune 29-30.

¹⁵ Early July, ~8.5 taf was released from Oroville and moved thru Banks utilizing the 500 cfs, thereby shifting EWA debt from State S.L. to Oroville. 7/14-7/31 18.9 of YCWA transfer "backed" into Oroville while approval of the water level response plan is still pending.

¹⁶ Based upon the 10/1/2003 DWR's 50% study.

¹⁷ 25.029taf = 10.48 Oroville water moved using 500cfs + 14.549 taf Oroville water moved using E/I relaxation